

Hanford Site Transportation Interface

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Transportation Interface

◆ Material Shipments

- 15'Long, 24" Diameter HLW Canisters
- Multi-Canister Overpacks
- 15'Long, 18" Diameter Standard Canisters
- Bare Assemblies/Single-Element Sized Container

◆ Shipping Facility Status

- New Facility Required; Siting Evaluation Planned
- Facility Availability Schedule Not Finalized
 - Current Baseline Startup after 2030
 - Schedule Direction Needed to Accelerate Facility Availability to Support Shipments by 2010

Transportation Interface

- ◆ Shipping Facility Capabilities
 - Capacity for all Hanford DOE-Owned SNF/HLW
 - Commercial Fuel Consideration
 - Rail Access
 - Staging Capacity
 - Top Loading Casks (on transport vehicle)

Transportation Interface

◆ Cask/Shipping Facility Interface Requirements

■ Cask

- Payload Capacity to enable 5 HLW canisters; 4 MCOs; 2 HLW canisters/2 MCOs; 9 standard canisters; or bare assemblies
 - ◆ Criticality/Poisons
 - ◆ Thermal (including payload temperature limits)
 - ◆ Shielding
 - ◆ Material Compatability
 - ◆ Pressurization

Transportation Interface

- ◆ Cask/Shipping Facility Interface Requirements
 - Cask (continued)
 - Dimensions and weight
 - Leak Tests
 - Decontamination
 - Seal Replacement
 - Safeguards
 - Grapple Design

Transportation Interface

- ◆ Cask/Shipping Facility Interface Requirements
 - Facility
 - Decontamination capability
 - Lay down area requirements
 - Number of casks per shipment
 - General Requirements
 - Responsibility for Cask Handling Equipment/Spares
 - Responsibilities for Cask decontamination/repair/rework
 - Demurrage charges for delayed shipments

Transportation Interface

- ◆ Cask/Shipping Facility Interface Requirements
 - General Requirements (continued)
 - Responsibility for supplying engines to move rail cars into Hanford facility
 - Detailed delineation of cask loading responsibilities
 - Labor Agreements (rail and facility operations)
 - Detailed Transportation Schedule Agreements
 - ◆ Notification Requirements
 - Detailed delineation of license/license application input responsibilities